



# CITY OF SAN ANTONIO

## PLANNING AND DEVELOPMENT SERVICES DEPARTMENT

TO: All Planning and Development Services Department Customers

SUBJECT: **INFORMATION BULLETIN 179**  
Residential Water Service Sizing Guide

DATE: May 24, 2010

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This information bulletin is based on the 2009 *International Plumbing Code* (IPC), Appendix E (sizing of water piping system) and is intended to assist contractors in sizing the water service for residential houses.

- For houses up to 1 ½ bath, a ¾-inch water service is acceptable.
- For houses 2 bath and up to and including 4 ½ bathrooms, a 1-inch water service shall be required.
- All building water systems shall be sized according to *Appendix E*.

**APPROACH:** Take the value of 14.4 wsfu (for the first 4 bathrooms) and add the other items (kitchen sinks, washer, dishwasher, hose bibs, sinks and any other fixture out side of the bathroom groups). Use *Table E 103.2(2)* and *E 201.1* to obtain this wsfu value. Regarding the kitchen sink and dishwasher, give them a combined wsfu of 2.8. Then add up the wsfu of the additional bathrooms (over the first 4).

**Typical Example:**

4 ½ baths; k.s.w. / dw; washer w/laundry sink tub; bar sink; 4 hb's.

First 4 baths =	14.4
(Plus additional shower in master bath) =	1.4
Kitchen group =	2.8
Laundry group =	2.8
Bar Sink =	0.7
Additional ½ bath =	2.9
4 Hb's =	<u>5.5</u>
	30.5 wsfu

### **ADDITIONAL SIZING GUIDEANCE:**

- For houses with typical front yard setbacks, use the 100 ft column of the Over 60 psi section of *Table E 201.1*.
- For houses on larger or oversized lots with greater setbacks, get the length from the meter to the most distant fixture in the house and use that column.
- The initial line size shall be carried to the manifold where the sizing chart (table *E 201.1*) allows the piping to be reduced.

Reference: *Appendix E* and Tables *E 103.3 (2)* and *E 201.1*.

Should you have any questions or concerns regarding this information bulletin please feel free to contact John Long, Senior Plumbing Inspector, at (210) 260-3684 or David Rohde, Plumbing Inspections Supervisor, at (210) 207-8279.